## SEQUENCE LISTING

#### (1) GENERAL INFORMATION:

- (i) APPLICANT:
  - (A) NAME: Fred Hutchinson Cancer Research Center, Inc.
  - (B) STREET: 1100 Fairview Avenue North, Mailstop c2M-027
  - (C) CITY: Seattle
  - (D) STATE: Washington
  - (E) COUNTRY: USA
  - (F) POSTAL CODE (ZIP): 98109
  - (A) NAME: Thomas Spies
  - (B) STREET: 2429 E. Aloha
  - (C) CITY: Seattle
  - (D) STATE: Washington
  - (E) COUNTRY: USA
  - (F) POSTAL CODE (ZIP): 98112
  - (A) NAME: Veronika Spies
  - (B) STREET: 2429 E. Aloha
  - (C) CITY: Seattle
  - (D) STATE: Washington
  - (E) COUNTRY: USA
  - (F) POSTAL CODE (ZIP): 98112
- (ii) TITLE OF INVENTION: CELL STRESS REGULATED HUMAN MHC CLASS I GENE
- (iii) NUMBER OF SEQUENCES: 16
- (iv) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
- (vi) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 60/029,044
  - (B) FILING DATE: 29-OCT-1996
- (2) INFORMATION FOR SEQ ID NO: 1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 11722 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

CACTGCTTGA	GCCGCTGAGA	GGGTGGCGAC	GTCGGGGCCA	TGGGGCTGGG	CCCGGTCTTC	60
CTGCTTCTGG	CTGGCATCTT	CCCTTTTGCA	CCTCCGGGAG	CTGCTGCTGG	TGAGTGGCGT	120
TCCTGGCGGT	CCTCGGCGGA	GCGGGAGCAG	TGGGACGTTT	CCGGGGGTCG	GGTGGGTAGC	180
GGCGAGCGCT	'GTGCGGTCAG	GGCGGGGCTC	CTGTGCCCTG	TCGGTGGCGC	AGGGAGCTGG	240

ACGCGGCCCG	TTACCGCCAC	ACTTCAGCCC	TGCTTCCCCG	TCACTTTTCA	GTCCTCCTCG	300
GGATCGCGCA	TCACCTGCAC	TTTCTGGTCT	CCTCCTGCTC	TTTCTCTCCT	CGCGTCTCCT	360
CCGCTTCCTC	TCACTTTTCG	GACAAACCAG	TCCTTCTGAG	GCCCATGGGT	TCCCGGGCTG	420
CCTCCGGGGC	TGCTCCTGTG	AATGGCATTC	GAGTGCCCTT	CCAGCGCGGC	CACTGAAGCA	480
GCCACAACCC	CCGGTGCTCG	GGGCGGCTCT	CAGGTCCCTG	AAGTCCTGTC	CTCTCCCGGA	540
GCCGACGTGT	TCTCAGCTCC	TGGGCCGCAG	CTCCTGGAGT	AGGGGCCCTC	CTTTCTCGGG	600
ACCCGGAGCT	GGTGCTTCCT	GCTGCTGTGG	GGACTGTGGG	GGGTCCTGAC	TCTCAAGCTG	660
AGGGGTTGGA	GTCTGCAGGC	TCCGGGCAGA	GGATTCTTCC	TGCGACTTCT	CTCATCCCCA	720
GCTCATTCTC	CCCTCGCCTC	TGGCTCCGAG	GGTCCTCTCC	TCTCTCTCAT	CCCACCCCTA	780
CTAATGACCA	GTGATCTAAG	GACACCAGAT	TCCCTCTCAC	CTCCTCCCTG	CCCATCTCAG	840
GGCCCGCTGA	GTCCTTTTGC	CCTCCCAGCT	CCCTGCTACC	CCTTCCTGTG	TGCTGTTCTC	900
TGATCCATTT	CTAGGGTGTC	CTCTGCCCTC	ATCCCCTGTC	CCCGCCACCG	AAGTCCCTCC	960
TGCACCCCTT	ATGGGCCTTT	CCTACAAGCA	GCCTTCACCC	AGTGCTGCCC	CTATGCCTCC	1020
CCGTTCCCAA	ATGTCCCTGA	CTCTAACTTT	CTGGTGCTGC	CTTTTATCCG	GGGGGTCTT	1080
CCCTCCATCC	CACTCCCCTC	CAGACCCCCA	AGGGGAACCC	TGATGCTAAT	GGCAGTTGGG	1140
CCTTAGGCAG	GGCGCAGGGC	AGCGCAGATG	CCCCCTCCCC	TCCAGTGCAG	ATGCCTGTTC	1200
TGGACCCTGC	CTCATTGTGG	CCCCTTCCCC	ACTCCTTCAT	CCTCAGCCTC	ACCCTCTTGA	1260
GGACCCCACC	CTCCAGCCCA	CAGGTGCTGG	ACCATCCCTC	CCTGGTCCCT	CCGCCCCTCT	1320
CCACCTTGGG	ACCTTGTGCT	GCTCCTATCT	CTTGCCCAGC	TGCCTTGGGC	CCTCAGCACG	1380
TTCTCATCTT	TCAGTGGGAA	AGTGGGAGTG	CTGGAGCATA	TGACAGTGCT	GAGCATCTTT	1440
CCCAAGCCCC	ACCCTCCCC	AGAGCACCCT	CCCCTCCTGT	CCTCACCCTA	CCCCAAGTTC	1500
TCCCACAGTC	ACTCCTGCCC	CATGCTCATG	CCGCCCTCCA	GTTCTTGCTC	TGCCCATCTC	1560
CCCTCCCAA	CCCAGACCTA	AAACAGGCTG	TTGGGCCAAC	TGTTCCTTGA	CCTTCCTTCT	1620
TTTCTTTTGG	TTCCTTGACC	CCAGTGGGCT	CTCACTCCCC	ACACCGCATA	TCTAAAATCT	1680
GTTTTGCCTG	CTCTTGGGGT	GCCACTGCTC	CCCCTCCAGC	ATTACTCCTT	TTGGCAGGTC	1740
CTTCCTCAGG	CTGAGAATCT	CCCCCTCTAC	CTTGGTTTTC	TCTCTCTGGC	CAGCACCCCC	1800
ACTCCTTGCT	TTGTTTTAA	TTTTTAACTT	TTGTTTGGGT	ACGTAGTAGA	TATATATGTA	1860
TATATTTATG	GGGTACATGG	GATATTTTGA	CACAGGCCTA	CAATATGTAA	TAATCACATC	1920
AGGGTAAATG	GGTTATATCA	CAACAAGCAT	TTATCCTTTC	TTTGTGCTAC	AAACAATCCC	1980

ATTATGCTCT TTCAGTTATT TTTAAATGTA CAATAAATTA TTGTTGACTG TACTCACCCT 2040 GCTGTGCTAT CTACTAGATC TTATTCATTC TAATTATATT TTTGTACCCA TTATTAACCA 2100 TCCCTGCTCC CCCACTCCCC ACTACCCTTC TCAGCCTCTG GTAATCATCA TTCTATTGTC 2160 TCTCCCCATG AGGTCCATTG TTTTAAATTT TGGCTGCCAC AAATAAGTGA GAACATGCAA 2220 AGTTTGTCTG TCTGGGCCTG GGGCTTATTT CACTTCACAG GATGACCTCC AGTTCTTTGC 2280 AAATGACACG ATGGCTGAAT AGTTCTCCAC ATACACATGT ACACCACATT TTCTTTATCC 2340 ATGCGTCTGT TGATGGACAC TTAGATTGCT TGCAGATCTT GGCTACTTTG AATAGTGCTG 2400 CAATAAACAT GGAAAAGTAG ATAGCTCTTT AATATACCGA TTTCCTTTCT TTGGAGTATA 2460 TGCCTAACAG TGGGAGTGCT GGAGCATATG ACAGCTCTAT TGTATTTTTA GTTTTTGGAA 2520 GAACCTCCAC ATTGTTTCCC ATAGTGGTTG TACTAGTTTA CGTTCCCACC AACAGTGTAC 2580 ATCCTCACCA GCATTCCTTA TTTCTACATC CTCGCCAGCA TTCCTTATTG CCTGTCTTCT 2640 GGATAAAAGC CAGTTTATCT GGGGTGGGAT GTTATCTCGT AGGAGTTTTG ATTTGCCTTC 2700 ATCTGTTGAC GAATGATGTT GAGCACCTTT TCATATACCT GTTTGCCATT TATATGTCTT 2760 CTTTTGAGAA ATGACTATTC AGATCTTTTC TCATTTTTAA ATTGGATTAT TATATTTTTT 2820 TTCCTATAGT TGTTCGAGCT CCTTATATGT TTCAGTTACT GATCCTTTGT CAGATGAATA 2880 GTTTGAAAAT ATTTTCTCCC ATTCTTGGAT GGTCTCTTCA TTTTGTTTAT TGTTTCCTTT 2940 GCTGTGCAGA AGCCTTTTTA CTTGATATGA TCCCATTTAT GCAATTTTAC TTTGGTTACC 3000 TGTGCTTGTG GGGTATTACT TTAAAAATCT TTGCCCAGTC CAATATCCTA GAGAGTTTCC 3060 CCAATGTTTT CTTGTATAGT TTCATAGTTT GAGGTCATAG ATTTACATCT TTAATCCACT 3120 TTGATTTGAT TTTTGTATAT GGTGAAAGAC AGGGTCTAGT TTCATTCTTC TGCATAAGGA 3180 TATCTAGTTT CCCCAGCACC ATTTTTGAAG AGACTCTCCT TTGCCAATGT GTGTTCTTGG 3240 TACCTTTGTT GGAAATGAGT TTACTGTAGA TGTATGGAAT TGTTTCTGGG TTCTCTATTC 3300 TGTTTCATTG GTCTGTGTGT CTGTTTTTAT GCCAGTATCA TGCTGTTTTG GTTACTGTAG 3360 CTCTGTAGTA TAATTTGAAG TCAGATAATG TGATTCCTCT AGTTTTGTTC ATTTTGCTCA 3420 GGATAGCTTT ATCTATTCTG GTTTTTTTGT GGTTCCATAT GCATTTTAGG ATTATTTTTA 3480 TTATTTCTGT GAAGAATGTC ATTAGTGTTT TGATAGGGAT TGCATTGAAT CTGTAGATTA 3540 CTTTGGGTAG TATGGATATT TCAACAAAAC TGATTCTTCC AATCCATGAA CGTGGACTAT 3600 CTTTTCCATT TTTTGTGTCC TTCAATTTTT TGCATCAGTG TTTTTTGTTT TTGGTTTTTG 3660 AGATGGAGTT TCACTCTTGT TGCCCAGGCT AGAATGCAAG GGTGTGATCT TGGCTCACCG 3720

3780 CAACCTCCGC CTCCCAGGTT CAAGCTATTC TTCTGCCTCA GCCTCCCAAG TAGCTGGGAT TACAGGCATG TGCCACTGTG CCTGGCTAAT TTTCTATTTT TATTAGAGAT GGGGTTTCTC 3840 TATGTTGGCC AGGCTAGTCT TGAACTCCTG ACCTCAGGTG ATCCACCTGC CTCGGCCTCC 3900 3960 CAAAGTGCTG GGATTACAGG CATGAGCCAC CACGCCCAGC CACATCACTG TTTTATAGTT TTTATTGGAG AGGTCTTTCA CTTCTTCAGT TAGGTTTATT CCTCAGTATT TTATTTATT 4020 TGTAGCTATT GTAAATGGGA TTCGTTTCTT GATTTCTTTT TCAGATTATT TGCTGTTAGC 4080 ACTGATTTT GCATGTTGAT TTTGTATCCT GCAACTTTAC TGAATTTGTT CTTCAGTTCT 4140 AATGGTTTTT TGGTGGAGTC TTTAGGTTTT TCCAAATATC AGACCACATG ATCTGCAAAC 4200 AAGGATAATT TGACTTCTTC TTTTCCAGTT TTAATGCCCT TTCTTTCTTT CTCCTGTCTG 4260 ATTGCTCTAG TTAGGATCTG CAGTACTGTG TTGCATAACT GTGGTAAAAT TAGTCATCCT 4320 TGTCTTATTC CAGATCTTAG AGAAAAGGCT TTCAGTTTTC CCCCATTCAG TATGTTACTA 4380 GCTGTGAGTT TGTCATATAT GGCTTTTATT ATATTGAGGT CTGTTCCTTG TATACTTAGT 4440 TTTTTGAGAG TTTTTATCAT GAAGGGATGT TGAATTTATC AAATGCTTTT TCAGTATCAA 4500 TTGAATGATA CTGGCTTTTG TCCTTTATTC TGTTGATATG ACGTATTACA TTGATTGATT 4560 TGTGTATGTT AAATCATCCT TGCATACCTG GAATACATTC CACTTGCTCA TAAAGAATGA 4620 TCTTTTTTAA TGTATTGTTG AATGTGGTTT GCTAGTATTT CCTTGACGAT TTTTGCATCG 4680 GTGTTCATCA GGGATATAGG CCTGTAGTTT TCTTTTTTAT GATGTGTCTT TGCCTGGTTT 4740 TTGTATCAGG ATATTCCTGG CTTTGTAAAA TGAGTTTGGA AGTATTCCCT CCTCCTCTAT 4800 TTTTCAGAAC AGTTTGAATA GGACTGACAT ATGTTGTTCT TTAAAAGTTT AATTGTGGTA 4860 AATTATACAT TACATAAATT TTACTGTTTT AACCACTTTT AAGTGTATAC TCGGTGGCAT 4920 TAGATACATT CACATTTTTG TGCAACCCAA AACTCTGTGC CCATTAATCG GTAACTCCCC 4980 ATTCCTCCCT ACCTCTGGCC CCTGGTAACC ACCATTCTAC TTTTTGTTTC TATGAATTTG 5040 ACCACTCTAG GTACCTCATT TAAGCAGAAT CATGTAATGT TTGTCTTTTT GTTTCTGGCT 5100 TATTTCACTT ATAATATTT TGAGGTTCGG TGGGCACAGT GGCTCACGCC TGGATTTCCA 5160 GCACTTTGGG AGGCTGAAGC AGGTGGATCA CCTGAGTTTC GGAGTTCGAA ACCAGCCTGG 5220 CCAACATGGT GAAACCCCAT CTCTACTAAA AATAATAAAA GTTAGCCGGG CGTGATGGCG 5280 GGTGCCTGTA ATCCCAACTA CTTGGGAGGC TGAGGCAGGA GAATCGCTTG AATCCGGGAA 5340 GTGGAGGTTG CAGTGAGCTG AGATCAGGCC ACTGCACTCC AGCCTGGGCA ACAAGAGTGA 5400 AATTCCATCT CCAAAAAAA AAAATAAAAC AATAATAATA ATAATATTT TGAGGTTCAT 5460 CCAAGTTGTA GTATGGGTCA GAATTTCATT CCTTTTAAGG ATGGATAATA CTCATTATAT 5520 GTATGTACCA CATCTTGGTT ATCCATCCCT CAGACAATGG ACACTTGGGT TACTTCTACC 5580 TTTTGGATAT TGGCAAATAT TTCATTTCCT TTGGGTATAT ATTTATTTCC TTTGGGTATT 5640 TCTTTTGGGT ATATATCCAG AAATAGAAGC AGTACACAGG GGCTTCATTT TCTCTGTCTC 5700 TTTGCCAACC TTGCTCTGTG TGTGTGTGTA TGTGTGTGTG TAGGTGTGTG ATAACAGCCA 5760 TCCTGATTGG TTTCAGGTGG CATCTCATTG TGGTTTGGAT TTGCATTTTC CTAATGAGTG 5820 CTGATATTGA GCATCTTTTC ATGTGTTTGT TGATCATTTG TAATTTTCTT TGAAGAATTG 5880 GCCATTTAAG TCTTTTGCCC ATTTTTTCCC CCACATAGCT TCTCTTATCA GATATATGAC 5940 TTGCAATATT TATTTCATTT CGGGGTTGAT TGCTTTTTCA CTCTGATTGT GCCCTTTGAT 6000 GCATAGATGT TTTGAATTTT CATCAGTCTA CTTTGTCAGT TCTTTCTATT CTATCTGTGC 6060 TTTGGTGTCA TATCCATGAA AGCACTGTCA AATCCTATGT CATGAACATT ATCCCCAATG 6120 TTTGCTTCTA AGAAATTTTT AGGTTTTAGT TCTTGAGTGT AGAGTTTAGG TCTTTGATTC 6180 ATTTTGAGTT AATTTTTGTA TATAGTGCAA ATTAAGGGTC CAATTTTATT TTAACACCCC 6240 CTGCCCCCAG AACTATTTGC TGAAAAGATC AACTGACTCT TTGTCACCTG CTCACCCCAG 6300 TGGACACTAG CTGTTCCATC CAATTGCTGT CCTGGGGCCT TGTCATGCTA CTCTTCCACT 6360 TTGAACCCAA GCCCACACCG TTCGTTGCTC CCCTCTGGGA TACTGACCCC ACTATAAACT 6420 TCTCTGGGGC TACAACCTTC CTACCCTTTG TGCCTCATGA CCACCCCCTC CCTTGTCCCC 6480 6540 GCCATGCCCA TGATGAGTCT CTTCTCGAGG CAGCTCCCCT TGCCTCCATC TCACCCTCAG CCTATGCACC ACAGCCACAC TGGACATGGG TCCCTCTGAG CCTGAGTCCC TTCCCATTCC 6600 6660 CACCATCTCC TCTGGCAAGA CCTTCCTTCC ACCACCTTCA TGCTCCTCCC TTGCCCCTGC AGGGCAGCCT CTCCCCTTGG CCCCTATTCC CTTAGGGGGC TTGTGGCCAC CCAGTCCTTG 6720 6780 CACCTGGCCT ACAAGTTTGC CATCTTCATT CCCCCTTCTT CTGTTCATCA GCCCCCTCCT CTATCCTCCC ACCCTCACAG TTTTCTTTGT ATATGAAATC CTCGTTCTTG TCCCTTTGCC 6840 6900 CGTGTGCATT TCCTGCCCCA GGAAGGTTGG GACAGCAGAC CTGTGTGTTA AACATCAATG TGAAGTTACT TCCAGGAAGA AGTTTCACCT GTGATTTCCT CTTCCCCAGA GCCCCACAGT 6960 CTTCGTTATA ACCTCACGGT GCTGTCCTGG GATGGATCTG TGCAGTCAGG GTTTCTTGCT 7020 GAGGTACATC TGGATGGTCA GCCCTTCCTG CGCTATGACA GGCAGAAATG CAGGGCAAAG 7080 CCCCAGGGAC AGTGGGCAGA AGATGTCCTG GGAAATAAGA CATGGGACAG AGAGACCAGG 7140 GACTTGACAG GGAACGGAAA GGACCTCAGG ATGACCCTGG CTCATATCAA GGACCAGAAA 7200

GAAGGTGAGA	GTCGGCAGGG	GCAAGAGTGA	CTGGAGAGGC	CTTTTCCAGA	AAAGTTAGGG	7260
GCAGAGAGCA	GGGACCTGTC	TCTTCCCACT	GGATCTGGCT	CAGGCTGGGG	GTGAGGAATG	7320
GGGGTCAGTG	GAACTCAGCA	GGGAGGTGAG	CCGGCACTCA	GCCCACACAG	GGAGGCATGG	7380
GGGAGGCCA	GGGAGGCGTA	CCCCCTGGGC	TGAGTTCCTC	ACTTGGGTGG	AAAGGTGATG	7440
GGTTCGGGAA	TGGAGAAGTC	ACTGCTGGGT	GGGGGCAGGC	TTGCATTCCC	TCCAGGAGAT	7500
TAGGGTCTGT	GAGATCCATG	AAGACAACAG	CACCAGGAGC	TCCCAGCATT	TCTACTACGA	7560
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CAGAGCTCAG	ACCTTGGCCA	TGAACGTCAG	GAATTTCTTG	AAGGAAGATG	CCATGAAGAC	7680
CAAGACACAC	TATCACGCTA	TGCATGCAGA	CTGCCTGCAG	GAACTACGGC	GATATCTAGA	7740
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TGAGGACAGA	CTTGCAGGTC	AGGGGTCCCG	GAGGGCTTCA	GCCAGAGTGA	GAACAGTGAA	8280
GAGAAACAGC	CCTGTTCCTC	TCCCCTCCTT	AGAGGGGAGC	AGGGCTTCAC	TGGCTCTGCC	8340
CTTTCTTCTC	CAGTGCCCCC	CATGGTGAAT	GTCACCCGCA	GCGAGGCCTC	AGAGGGCAAC	8400
ATCACCGTGA	CATGCAGGGC	TTCCAGCTTC	TATCCCCGGA	ATATCACACT	GACCTGGCGT	8460
CAGGATGGGG	TATCTTTGAG	CCACGACACC	CAGCAGTGGG	GGGATGTCCT	GCCTGATGGG	8520
AATGGAACCT	ACCAGACCTG	GGTGGCCACC	AGGATTTGCC	AAGGAGAGGA	GCAGAGGTTC	8580
ACCTGCTACA	TGGAACACAG	CGGGAATCAC	AGCACTCACC	CTGTGCCCTC	TGGTGAGCCT	8640
AGGGTGACCC	TGGAGAGGGT	CAGGCCAGGG	TAGGGACAGC	AGGGATGGCT	GTGGCTCTCT	8700
GCCCAGTGTA	TANCAAGTCC	CTTTTTTCA	GGGAAAGTGC	TGGTGCTTCA	GAGTCATTGG	8760
CAGACATTCC	ATGTTTCTGC	TGTTGCTGCT	GCTGCTGCTG	CTATTTTTGT	TATTATTATT	8820
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GGGCAGTTTC	TGGAGATGGT	AAGGCCCCTG	TCTGGGCAGT	AGGGTCCCCT	CATTGCTCCT	8940

GCAAAGATAG	GCATGTTGGT	GACAAGGCTT	CTGTAACAGG	GGATGAAAGT	TGGGGAATTT	9000
GGGAAGGGAA	TGGGGGCAGC	ATCTCCATCT	ACACCCATAA	GTGCTGCCCA	AGCGAGGGTC	9060
AAACGCCCAG	CTGTGGCATC	TTCCTGCTGC	AGGTGAGGAG	TGGGCAGCAG	GGAGGGCTGC	9120
GGCGCCTGCT	CTGTCCCCAT	CCCGGTCTCT	GTGTCTCTTG	GACTCACTAG	GGCGCATCCA	9180
GGTGGGGTGA	GCTGGGAATC	ACGTGCTGAA	TGCTGAGGGC	CTGGATGATC	ACGGCCTCAG	9240
AGGGAGCAAA	TAGTAAAGGC	AGCTGTGATC	TGGGGAGGC	CAGAAACTGG	AGAGGAATCT	9300
GAGGAGAGGC	GGTGCCCCTA	TTCCCTTCCT	CTCTGCATCC	CCCTCCCCTG	TTTCTCCAGC	9360
CATCGGGGCG	GACACCGAGA	AAAAGACCTA	TGAGGCCCAG	CCTGGGGGCC	CTGCCTGTGT	9420
AGCCCTTTGG	AGACCCCTAG	TAACAGGGAG	GGTCCTGAGC	ACACATGGCC	ATCTCTGTCC	9480
ACTGTGCAGC	TCCCCATGCA	CCTCCTCCAG	GAGCTTTCTT	GGGGTTGTCG	TGTCCTCTGC	9540
ACCATTCGAG	GCCCTACTCT	TTCCAGGTTC	CCACGGCCTG	GCCTCCCTGA	GTTTCTTGCA	9600
GATGACATGG	ATGAGTAGAT	AAGCAGATGT	CCCTGGGCCA	TTTGAGGAGT	GGGGCCCAGC	9660
CCCTCATCAG	GGCAGCTGTG	GTCCCTGTTT	TCATCCTACC	TCCGAGTGTT	TTCTTCTCCA	9720
GTCCCTGAGG	GACACAGTCC	TCAGGGCCCA	TGTTTTTGGG	GATTTAATCT	GTGCTCTGTG	9780
GCCTCACCTT	GCCTTCCCTG	AGCCAATTTC	CCTTTCTAAA	GGTGGTCACT	GCCTGGTAAG	9840
TTTGGAGTAA	GGGACGGTCA	GAATCATTTC	CCCTACAGTC	AGGTTGTTTG	ATGGGGGATG	9900
AAAAGAGACA	GCAGGAAGTT	TTGTGTTTCT	GCAAAGACAG	AAGCAGTTCA	GGCGACAGTA	9960
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AACCTAATTG	CACTGTCAGT	CGGCCCCTCA	GGCCTGAGCA	GATGGGAAGG	TTTGTCCCCT	10080
GCCCTGCAGC	AAGAGGGCCC	TGTCCAGGAG	GCACCCACAA	CAGAGGCAGT	GCAGGTCTGT	10140
GGTCACTCCT	ACTCTCACCT	GTGGCGTCTC	CCGTAGAGGG	ATTGTCAGTT	CTGGTTCCCT	10200
GTGGGCAGGA	ATGGTTTCCT	CATAGGTCAC	TGGAGTTTTG	GCCAGGAAAA	GAGTATGAAG	10260
TTCATGTGGC	AGTTTCTCAA	AATTCCTGCT	TTCAATGTTG	ATGTCCAGTA	AAGATATTCG	10320
TAATTTCAGC	TCTATAATCT	TAATAGGATT	TCCTCTAATA	TTGTGAAGCA	TATTATATGA	10380
AACAGGAACA	CAAATTTCTC	AAAATTCCTG	CGATGTCCAA	TAAAGATTTT	CATAATTTCA	10440
GCTCTGCAAT	CTTAATAGGA	TTTCCTAATA	CTGTAAAGCA	TATTAAATGA	AACAGGAACT	10500
CAAATTTGGA	GCCCCTCTC	CAGGAGGTTC	TGTGTGGAGA	TGGTGGCTGT	GGCAGTGGCA	10560
GTTCCCAGGT	GCAGAGGGTG	GGCAGAGGCA	GCCTCAGGCT	AAGGGGTCTC	CCCTACTCCA	10620
CATGGAGAAA	ATCCCTTGTA	GGTTGCAAGG	GCAGTGGCCG	GGTGGAATCC	CTGCTAGGGA	10680

CAGAGCAGGA	AGGCCTCGCA	GCCTCACCAA	GCAGCAGCCC	TGGGGTGGAG	CTGCGTTTCC	10740
AGGGTTAAGC	GGACCAGGCA	GGAGTAGCGG	TTACTCAAGA	GCAGGTCACA	GGCTTGGGTT	10800
GTGAGGGTCA	GGAGAGGCCA	GGCCTCCTCG	AGCAAGGTGG	GGGTCCCAGG	GTCAGGTCAG	10860
GTGCAGATCC	TGTGGCAGCC	ACGTCTTTCC	ATGCTGGGCC	TGCTGGGCCC	CCCAGGCTTC	10920
CTGATGGGGT	CCCCAGTTAG	GAGCTGCCTG	CTCAGGGCTG	GGAGGGAGG	AGCACTGAGC	10980
TGCAGATAGA	GGGCAGAGCC	CACAGTGGGC	AGGGCCTGCC	CTGGTGTGTA	GGTGCCTCTG	11040
CAGGAGAGGA	GGGCCTGGGG	ACTGAGAGCA	AGGGTCAGGG	CCTCTCTTTG	GGGAGGCCTC	11100
TCACTGTAAC	AGGACTGGTC	AGGCCTGAGA	GGAGGGCACT	GGGTTCCCTC	TTGGGTCTTG	11160
TCCTTTAGTC	TTGGGGCCCT	TTCCCTCCCT	GCACGATGAG	TGGTGGGCAC	AGGGCACGGG	11220
CTGATGTTGA	TGGAGTGATG	GGAGGGAACT	GGCAGGGGCT	GGGAAAAGCA	AGGAGGAGG	11280
AAGAAAAAG	TGGGGGCCTC	ATCTTCCCTC	AGAGAAAGGG	CAAATCTGGT	TTTGGAGCAA	11340
CTGAAGAGAG	AAAAGTCCCC	AGGGAATAAA	CACAACACTG	CACCCAGTGG	AGCATTTACC	11400
CATTTCCCTC	TTTTCTCCAG	AGCTCGTGAG	CCTGCAGGTC	CTGGATCAAC	ACCCAGTTGG	11460
GACGAGTGAC	CACAGGGATG	CCACACAGCT	CGGATTTCAG	CCTCTGATGT	CAGCTCTTGG	11520
GTCCACTGGC	TCCACTGAGG	GCGCCTAGAC	TCTACAGCCA	GGCGGCTGGA	ATTGAATTCC	11580
CTGCCTGGAT	CTCACAAGCA	CTTTCCCTCT	TGGTGCCTCA	GTTTCCTGAC	CTATGAAACA	11640
GAGAAAATAA	AAGCACTTAT	TTATTGTTGT	TGGAGGCTGC	AAAATGTTAG	TAGATATGAG	11700
GCATTTGCAG	CTGTGCCATA	TT				11722

## (2) INFORMATION FOR SEQ ID NO: 2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 385 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Met Gly Leu Gly Pro Val Phe Leu Leu Leu Ala Gly Ile Phe Pro Phe 1 5 10 15

Ala Pro Pro Gly Ala Ala Ala Glu Pro His Ser Leu Arg Tyr Asn Leu 20 25 30

Thr Val Leu Ser Trp Asp Gly Ser Val Gln Ser Gly Phe Leu Ala Glu 35 40 45

Val His Leu Asp Gly Gln Pro Phe Leu Arg Tyr Asp Arg Gln Lys Cys
50 55 60

Arg Ala Lys Pro Gln Gly Gln Trp Ala Glu Asp Val Leu Gly Asn Lys 65 70 75 80

Thr Trp Asp Arg Glu Thr Arg Asp Leu Thr Gly Asn Gly Lys Asp Leu 85 90 95

Arg Met Thr Leu Ala His Ile Lys Asp Gln Lys Glu Gly Leu His Ser 100 105 110

Leu Gln Glu Ile Arg Val Cys Glu Ile His Glu Asp Asn Ser Thr Arg 115 120 125

Ser Ser Gln His Phe Tyr Tyr Asp Gly Glu Leu Phe Leu Ser Gln Asn 130 135 140

Val Glu Thr Glu Glu Trp Thr Val Pro Gln Ser Ser Arg Ala Gln Thr 145 150 155 160

Leu Ala Met Asn Val Arg Asn Phe Leu Lys Glu Asp Ala Met Lys Thr
165 170 175

Lys Thr His Tyr His Ala Met His Ala Asp Cys Leu Gln Glu Leu Arg 180 185 190

Arg Tyr Leu Glu Ser Ser Val Val Leu Arg Arg Arg Val Pro Pro Met 195 200 205

Val Asn Val Thr Arg Ser Glu Ala Ser Glu Gly Asn Ile Thr Val Thr 210 215 220

Cys Arg Ala Ser Ser Phe Tyr Pro Arg Asn Ile Thr Leu Thr Trp Arg 225 230 235 240

Gln Asp Gly Val Ser Leu Ser His Asp Thr Gln Gln Trp Gly Asp Val 245 250 255

Leu Pro Asp Gly Asn Gly Thr Tyr Gln Thr Trp Val Ala Thr Arg Ile
260 265 270

Cys Gln Gly Glu Glu Gln Arg Phe Thr Cys Tyr Met Glu His Ser Gly 275 280 285

Asn His Ser Thr His Pro Val Pro Ser Gly Lys Val Leu Val Leu Gln 290 295 300

Ser His Trp Gln Thr Phe His Val Ser Ala Val Ala Ala Ala Ala Ala 305 310 315 320

Ala Ile Phe Val Ile Ile Ile Phe Tyr Val Arg Cys Cys Lys Lys Lys 325 330 335

Thr Ser Ala Ala Glu Gly Pro Glu Leu Val Ser Leu Gln Val Leu Asp 340 345 350

Gln His Pro Val Gly Thr Ser Asp His Arg Asp Ala Thr Gln Leu Gly 355 360 365

Phe Gln Pro Leu Met Ser Ala Leu Gly Ser Thr Gly Ser Thr Glu Gly 370 375 380

Ala 385

### (2) INFORMATION FOR SEQ ID NO: 3:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGGCCATGGG	GCTGGGCCGG	GTCCTGCTGT	TTCTGGCCGT	CGCCTTCCCT	TTTGCACCCC	60
CGGCAGCCGC	CGCTGAGCCC	CACAGTCTTC	GTTACAACCT	CATGGTGCTG	TCCCAGGATG	120
AATCTGTGCA	GTCAGGGTTT	CTCGCTGAGG	GACATCTGGA	TGGTCAGCCC	TTCCTGCGCT	180
ATGACAGGCA	GAAACGCAGG	GCAAAGCCCC	AGGGACAGTG	GGCAGAAGAT	GTCCTGGGAG	240
CTAAGACCTG	GGACACAGAG	ACCGAGGACT	TGACAGAGAA	TGGGCAAGAC	CTCAGGAGGA	300
CCCTGACTCA	TATCAAGGAC	CAGAAAGGAG	GCTTGCATTC	CCTCCAGGAG	ATTAGGGTCT	360
GTGAGATCCA	TGAAGACAGC	AGCACCAGGG	GCTCCCGGCA	TTTCTACTAC	GATGGGGAGC	420
TCTTCCTCTC	CCAAAACCTG	GAGACTCAAG	AATCGACAGT	GCCCCAGTCC	TCCAGAGCTC	480
AGACCTTGGC	TATGAACGTC	ACAAATTTCT	GGAAGGAAGA	TGCCATGAAG	ACCAAGACAC	540
ACTATCGCGC	TATGCAGGCA	GACTGCCTGC	AGAAACTACA	GCGATATCTG	AAATCCGGGG	600
TGGCCATCAG	GAGAACAGTG	CCCCCATGG	TGAATGTCAC	CTGCAGCGAG	GTCTCAGAGG	660
GCAACATCAC	CGTGACATGC	AGGGCTTCCA	GCTTCTATCC	CCGGAATATC	ACACTGACCT	720
GGCGTCAGGA	TGGGGTATCT	TTGAGCCACA	ACACCCAGCA	GTGGGGGGAT	GTCCTGCCTG	780
ATGGGAATGG	AACCTACCAG	ACCTGGGTGG	CCACCAGGAT	TCGCCAAGGA	GAGGAGCAGA	840
GGTTCACCTG	CTACATGGAA	CACAGCGGGA	ATCACGGCAC	TCACCCTGTG	CCCTCTGGGA	900
AGGTGCTGGT	GCTTCAGAGT	CAACGGACAG	ACTTTCCATA	TGTTTCTGCT	GCTATGCCAT	960
GTTTTGTTAT	ТАТТАТТАТ	CTCTGTGTCC	CTTGTTGCAA	GAAGAAAACA	TCAGCGGCAG	1.020
AGGGTCCAGA	GCTTGTGAGC	CTGCAGGTCC	TGGATCAACA	CCCAGTTGGG	ACAGGAGACC	1080
ACAGGGATGC	AGCACAGCTG	GGATTTCAGC	CTCTGATGTC	AGCTACTGGG	TCCACTGGTT	1140

CCACTGAGGG CGCCTAGACT CTACAGCCAG GCGGCCAGGA TTCAACTCCC TGCCTGGATC 1200 TCACCAGCAC TTTCCCTCTG TTTCCTGACC TATGAAACAG AAAATAACAT CACTTATTTA 1260 TTGTTGTTGG ATGCTGCAAA GTGTTAGTAG GTATGAGGTG TTTGCTGCTC TGCCACGTAG 1320 AGAGCCAGCA AAGGGATCAT GACCAACTCA ACATTCCATT GGAGGCTATA TGATCAAACA 1380 GCAAATTGTT TATCATGAAT GCAGGATGTG GGCAAACTCA CGACTGCTCC TGCCAACAGA 1440 AGGTTTGCTG AGGGCATTCA CTCCATGGTG CTCATTGGAG TTATCTACTG GGTCATCTAG 1500 AGCCTATTGT TTGAGGAATG CAGTCTTACA AGCCTACTCT GGACCCAGCA GCTGACTCCT 1560 TCTTCCACCC CTCTTCTTGC TATCTCCTAT ACCAATAAAT ACGAAGGGCT GTGGAAGATC 1620 AGAGCCCTTG TTCACGAGAA GCAAGAAGCC CCCTGACCCC TTGTTCCAAA TATACTCTTT 1680 TGTCTTTCTC TTTATTCCCA CGTTCGCCCT TTGTTCAGTC CAATACAGGG TTGTGGGGCC 1740 CTTAACAGTG CCATATTAAT TGGTATCATT ATTTCTGTTG TTTTTGTTT TGTTTTGTT 1800 TTTGTTTTTG AGACAGAGTC TCACTCGTCA CCCAGGCTGC AGTTCACTGG TGTGATCTCA 1860 GCTCACTGCA ACCTCTGCCT CCCAGGTTCA AGCACTTCTC GTACCTCAGA CTCCCGATAG 1920 CTGGGATTAC AGACAGGCAC CACCACACCC AGCTAATTTT TGTATTTTTT GTAGAGACGG 1980 GGTTTCGCCA AGTTGACCAG CCCAGTTTCA AACTCCTGAC CTCAGGTGAT CTGCCTGCCT 2040 TGGCATCCCA AAGTGCTGGG ATTACAAGAA TGAGCCACCG TGCCTGGCCT ATTTTATTAT 2100 ATTGTAATAT ATTTATTAT ATTAGCCACC ATGCCTGTCC TATTTTCTTA TGTTTTAATA 2160 TATTTTAATA TATTACATGT GCAGTAATTA GATTATCATG GGTGAACTTT ATGAGTGAGT 2220 ATCTTGGTGA TGACTCCTCC TGACCAGCCC AGGACCAGCT TTCTTGTCAC CTTGAGGTCC 2280 CCTCGCCCCG TCACACCGTT ATCGATTACT CTGTGTCTAC TATTATGTGT GCATAATTTA 2340 2380 

#### (2) INFORMATION FOR SEO ID NO: 4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 383 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

Met Gly Leu Gly Arg Val Leu Leu Phe Leu Ala Val Ala Phe Pro Phe 1 5 10 15

Ala Pro Pro Ala Ala Ala Ala Glu Pro His Ser Leu Arg Tyr Asn Leu 20 25 30 Met Val Leu Ser Gln Asp Glu Ser Val Gln Ser Gly Phe Leu Ala Glu 35 40 45

Gly His Leu Asp Gly Gln Pro Phe Leu Arg Tyr Asp Arg Gln Lys Arg 50 55 60

Arg Ala Lys Pro Gln Gly Gln Trp Ala Glu Asp Val Leu Gly Ala Lys 65 70 75 80

Thr Trp Asp Thr Glu Thr Glu Asp Leu Thr Glu Asn Gly Gln Asp Leu 85 90 95

Arg Arg Thr Leu Thr His Ile Lys Asp Gln Lys Gly Gly Leu His Ser 100 105 110

Leu Gln Glu Ile Arg Val Cys Glu Ile His Glu Asp Ser Ser Thr Arg 115 120 125

Gly Ser Arg His Phe Tyr Tyr Asp Gly Glu Leu Phe Leu Ser Gln Asn 130 135 140

Leu Glu Thr Gln Glu Ser Thr Val Pro Gln Ser Ser Arg Ala Gln Thr 145 150 155 160

Leu Ala Met Asn Val Thr Asn Phe Trp Lys Glu Asp Ala Met Lys Thr
165 170 175

Lys Thr His Tyr Arg Ala Met Gln Ala Asp Cys Leu Gln Lys Leu Gln 180 185 190

Arg Tyr Leu Lys Ser Gly Val Ala Ile Arg Arg Thr Val Pro Pro Met 195 200 205

Val Asn Val Thr Cys Ser Glu Val Ser Glu Gly Asn Ile Thr Val Thr 210 215 220

Cys Arg Ala Ser Ser Phe Tyr Pro Arg Asn Ile Thr Leu Thr Trp Arg 225 230 235 240

Gln Asp Gly Val Ser Leu Ser His Asn Thr Gln Gln Trp Gly Asp Val 245 250 255

Leu Pro Asp Gly Asn Gly Thr Tyr Gln Thr Trp Val Ala Thr Arg Ile 260 265 270

Arg Gln Gly Glu Glu Gln Arg Phe Thr Cys Tyr Met Glu His Ser Gly 275 280 285

Asn His Gly Thr His Pro Val Pro Ser Gly Lys Val Leu Val Leu Gln 290 295 300

Ser Gln Arg Thr Asp Phe Pro Tyr Val Ser Ala Ala Met Pro Cys Phe 305 310 315 320

Val Ile Ile Ile Leu Cys Val Pro Cys Cys Lys Lys Lys Thr Ser 325 330 335

	Ala Ala Glu Gly Pro Glu Leu Val Ser Leu Gln Val Leu Asp Gln His 340 345 350	
	Pro Val Gly Thr Gly Asp His Arg Asp Ala Ala Gln Leu Gly Phe Gln 355 360 365	
	Pro Leu Met Ser Ala Thr Gly Ser Thr Gly Ser Thr Glu Gly Ala 370 375 380	
(2)	INFORMATION FOR SEQ ID NO: 5:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 25 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
ACTO	GGGGAAC AAGGTTTATA TGAGA	25
(2)	INFORMATION FOR SEQ ID NO: 6:	
(-,	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 24 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
TGTO	CACCCGT CTTCTACAGG ACCC	24
(2)	INFORMATION FOR SEQ ID NO: 7:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 17 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:	
GGGG	GCCATGG GGCTGGG	17
(2)	INFORMATION FOR SEQ ID NO: 8:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 17 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

ATCTGAGATG TCGGTCC	17
(2) INFORMATION FOR SEQ ID NO: 9:	,
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:	
CGTTCTTGTC CCTTTGCCCG TGTGC	25
(2) INFORMATION FOR SEQ ID NO: 10:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:	
AACCCTTCCC TTACCCCCGT CGTAG	25
(2) INFORMATION FOR SEQ ID NO: 11:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 45 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:	
TATGTAAAAC GACGGCCAGT TTCACCTGTG ATTTCCTCTT CCCCA	45
(2) INFORMATION FOR SEQ ID NO: 12:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 45 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:	
GGTCTTTTCA ATCCCCGTCT CTCGTCCAGT ATCGACAAAG GACAT	4 5
(2) INFORMATION FOR SEQ ID NO: 13:	

<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 40 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:	
TATGTAAAAC GACGGCCAGT TTCGGGAATG GAGAAGTCAC	40
(2) INFORMATION FOR SEQ ID NO: 14:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 40 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> <li>(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:</li> </ul>	
CGAGAGGAGA GGGAGGTTAA CCAGTATCGA CAAAGGACAT	40
(2) INFORMATION FOR SEQ ID NO: 15:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 40 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:	
TATGTAAAAC GACGGCCAGT GTTCCTCTCC CCTCCTTAGA	40
(2) INFORMATION FOR SEQ ID NO: 16:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 41 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:	

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AAAAAGTCCC TTTCACGACC ACCAGTATCG ACAAAGGACA T